





1600

RAW SEQUENCE LISTING DATE: 06/03/2002 PATENT APPLICATION: US/09/492,764B TIME: 13:31:22

Input Set : A:\10873-008.txt

Output Set: N:\CRF3\06032002\I492764B.raw

## **RECEIVED**

			RECEI	<b>VED</b>
	<110>	APPLICANT: Jove, Richard		
7		Hamilton, Andrew	JUN 12	2002
9		Gilbert, Richard		
11		Dalton, WIlliam	TEAU ACUTED	400010000
13		Sebti, Said	TECH CENTER	1600/2900
15		Yu, Hua		
17		Heller, Richard		
19	/1.00s	Jaroszeski, Mark	ON EOD HUMAN	CANCED
	<120>	TITLE OF INVENTION: INHIBITION OF STAT3 SIGNAL TRANSDUCTIO	ON FOR HUMAN	CANCER
24	41 2 Os	THERAPY		
		FILE REFERENCE: 10873-008-999		
		CURRENT APPLICATION NUMBER: 09/492,764B		
	_	CURRENT FILING DATE: 2000-01-27 PRIOR APPLICATION NUMBER: 60/117,600		
		PRIOR FILING DATE: 1999-01-27		
		NUMBER OF SEQ ID NOS: 38 SOFTWARE: PatentIn version 3.0		
		SEQ ID NO: 1		
		LENGTH: 24		
		TYPE: DNA		
		ORGANISM: Homo sapiens		
		SEQUENCE: 1		
		cattt cccgtaaatc ccta	24	
	_	SEO ID NO: 2	2.	
		LENGTH: 24		
		TYPE: DNA		
		ORGANISM: Homo sapiens		
		SEQUENCE: 2		
		cattt cccgtaaatc ccta	24	
	-	SEQ ID NO: 3		
		LENGTH: 22		
		TYPE: DNA		
		ORGANISM: Homo sapiens		
		SEQUENCE: 3		
		ccggc cggggaggcg ct	22	
	-	SEQ ID NO: 4		
		LENGTH: 25		
		TYPE: DNA		
		> ORGANISM: Homo sapiens		
		> SEQUENCE: 4		
		gacttc tecegeeget acege	25	
		> SEQ ID NO: 5		
		> LENGTH: 25		

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112 <212> TYPE: DNA
114 <213> ORGANISM: Homo sapiens
118 <400> SEQUENCE: 5
119 ccgcatgctg gggccgtaca gttcc
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122 <210> SEQ ID NO: 6
124 <211> LENGTH: 20
126 <212> TYPE: DNA
128 <213> ORGANISM: Homo sapiens
132 <400> SEQUENCE: 6
133 cgggcattca gtgacctgac
                                                                            20
136 <210> SEQ ID NO: 7
138 <211> LENGTH: 20
140 <212> TYPE: DNA
142 <213> ORGANISM: Homo sapiens
146 <400> SEQUENCE: 7
                                                                            20
147 tcaggaacca gcggttgaag
150 <210> SEQ ID NO: 8
152 <211> LENGTH: 20
154 <212> TYPE: DNA
156 <213> ORGANISM: Homo sapiens
160 <400> SEQUENCE: 8
                                                                            20
161 ccactgaact tctgattcgc
164 <210> SEQ ID NO: 9
166 <211> LENGTH: 20
168 <212> TYPE: DNA
170 <213> ORGANISM: Homo sapiens
174 <400> SEQUENCE: 9
175 gcgtgctagc tggatgtctt
                                                                            20
178 <210> SEQ ID NO: 10
180 <211> LENGTH: 9
182 <212> TYPE: DNA
184 <213> ORGANISM: Homo sapiens
188 <400> SEQUENCE: 10
189 ttcggagaa
                                                                             9
192 <210> SEQ ID NO: 11
194 <211> LENGTH: 9
196 <212> TYPE: DNA
198 <213> ORGANISM: Homo sapiens
202 <400> SEQUENCE: 11
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203 tgaggataa
206 <210> SEQ ID NO: 12
208 <211> LENGTH: 12
210 <212> TYPE: PRT
212 <213> ORGANISM: Homo sapiens
216 <220> FEATURE:
218 <221> NAME/KEY: misc_feature
220 <223> OTHER INFORMATION: Xaa = Ser or Pro
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224 <400> SEQUENCE: 12

W--> 226 His Tyr Xaa Pro Ile Leu Val Tyr Gln Pro Ser Trp

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227 1
                                         10
229 <210> SEQ ID NO: 13
231 <211> LENGTH: 12
233 <212> TYPE: PRT
235 <213> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 13
241 Gln Asp Val His Leu Thr Gln Gln Ser Arg Tyr Thr
                    5
242 1
244 <210> SEQ ID NO: 14
246 <211> LENGTH: 12
248 <212> TYPE: PRT
250 <213> ORGANISM: Homo sapiens
254 <400> SEQUENCE: 14
256 Ser His Pro Trp Asn Ala Gln Arg Glu Leu Ser Val
257 1
259 <210> SEQ ID NO: 15
261 <211> LENGTH: 12
263 <212> TYPE: PRT
265 <213> ORGANISM: Homo sapiens
269 <400> SEQUENCE: 15
271 Tyr Pro Ala Pro Gln Pro Leu Val Thr Lys Thr Ser
272 1
274 <210> SEQ ID NO: 16
276 <211> LENGTH: 12
278 <212> TYPE: PRT
280 <213> ORGANISM: Homo sapiens
284 <400> SEQUENCE: 16
286 Phe Ser Tyr Pro Leu Thr Arg Ala Pro Leu Asn Met
287 1
289 <210> SEQ ID NO: 17
291 <211> LENGTH: 7
293 <212> TYPE: PRT
295 <213> ORGANISM: Homo sapiens
299 <400> SEQUENCE: 17
301 His Ala Ile Tyr Pro Arg Asn
302 1
304 <210> SEQ ID NO: 18
306 <211> LENGTH: 7
308 <212> TYPE: PRT
310 <213> ORGANISM: Homo sapiens
314 <400> SEQUENCE: 18
316 Ala Ser Thr Leu Pro Lys Ala
317 1
319 <210> SEQ ID NO: 19
321 <211> LENGTH: 7
323 <212> TYPE: PRT
325 <213> ORGANISM: Homo sapiens
329 <400> SEQUENCE: 19
331 Ile Gln Ser Pro His Phe Phe
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RAW SEQUENCE LISTING DATE: 06/03/2002 PATENT APPLICATION: US/09/492,764B TIME: 13:31:22

Input Set : A:\10873-008.txt

Output Set: N:\CRF3\06032002\I492764B.raw

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332 1
     334 <210> SEQ ID NO: 20
     336 <211> LENGTH: 6
     338 <212> TYPE: PRT
     340 <213> ORGANISM: Homo sapiens
     344 <220> FEATURE:
     346 <221> NAME/KEY: misc_feature
     348 <223> OTHER INFORMATION: X = PHOSPHOTYROSINE
     352 <400> SEQUENCE: 20
W--> 354 Pro Xaa Leu Lys Thr Lys
     355 1
     357 <210> SEQ ID NO: 21
     359 <211> LENGTH: 6
     361 <212> TYPE: PRT
     363 <213> ORGANISM: Homo sapiens
     367 <400> SEQUENCE: 21
     369 Pro Tyr Leu Lys Thr Lys
     370 1
     372 <210> SEQ ID NO: 22
     374 <211> LENGTH: 6
     376 <212> TYPE: PRT
     378 <213> ORGANISM: Homo sapiens
     382 <220> FEATURE:
     384 <221> NAME/KEY: misc_feature
     386 <223> OTHER INFORMATION: X= PHOSPHOTYROSINE
     390 <400> SEQUENCE: 22
W--> 392 Ala Xaa Leu Lys Thr Lys
     393 1
     395 <210> SEQ ID NO: 23
     397 <211> LENGTH: 6
     399 <212> TYPE: PRT
     401 <213> ORGANISM: Homo sapiens
     405 <220> FEATURE:
     407 <221> NAME/KEY: misc_feature
     409 <223> OTHER INFORMATION: X = PHOSPHOTYROSINE
     413 <400> SEQUENCE: 23
W--> 415 Pro Xaa Ala Lys Thr Lys
     416 1
     418 <210> SEQ ID NO: 24
     420 <211> LENGTH: 6
     422 <212> TYPE: PRT
     424 <213> ORGANISM: Homo sapiens
     428 <220> FEATURE:
     430 <221> NAME/KEY: misc_feature
     432 <223> OTHER INFORMATION: X = PHOSPHOTYROSINE
     436 <400> SEQUENCE: 24
W--> 438 Pro Xaa Leu Ala Thr Lys
     439 1
     441 <210> SEQ ID NO: 25
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Input Set : A:\10873-008.txt Output Set: N:\CRF3\06032002\I492764B.raw 443 <211> LENGTH: 6 445 <212> TYPE: PRT 447 <213> ORGANISM: Homo sapiens 451 <220> FEATURE: 453 <221> NAME/KEY: misc\_feature 455 <223> OTHER INFORMATION: X = PHOSPHOTYROSINE 459 <400> SEQUENCE: 25 W--> 461 Pro Xaa Leu Lys Ala Lys 462 1 464 <210> SEQ ID NO: 26 466 <211> LENGTH: 6 468 <212> TYPE: PRT 470 <213> ORGANISM: Homo sapiens 474 <400> SEQUENCE: 26 476 Pro Tyr Leu Lys Thr Ala 477 1 479 <210> SEQ ID NO: 27 481 <211> LENGTH: 4 483 <212> TYPE: PRT 485 <213> ORGANISM: Homo sapiens 489 <220> FEATURE: 491 <221> NAME/KEY: misc\_feature 493 <223> OTHER INFORMATION: X = PHOSPHOTYROSINE 497 <400> SEQUENCE: 27 W--> 499 Pro Xaa Leu Lys 500 1 502 <210> SEQ ID NO: 28 504 <211> LENGTH: 4 506 <212> TYPE: PRT 508 <213> ORGANISM: Homo sapiens 512 <220> FEATURE: 514 <221> NAME/KEY: misc\_feature 516 <223> OTHER INFORMATION: X = PHOSPHOTYROSINE 520 <400> SEQUENCE: 28 W--> 522 Pro Xaa Phe Lys 523 1 525 <210> SEQ ID NO: 29 527 <211> LENGTH: 3 529 <212> TYPE: PRT 531 <213> ORGANISM: Homo sapiens 535 <220> FEATURE: 537 <221> NAME/KEY: misc\_feature -539 <223> OTHER INFORMATION: X = PHOSPHOTYROSINE 543 <400> SEQUENCE: 29 W--> 545 Xaa Leu Lys 546 1 548 <210> SEQ ID NO: 30

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/492,764B

550 <211> LENGTH: 4 552 <212> TYPE: PRT RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/492,764B

DATE: 06/03/2002 TIME: 13:31:23

Input Set : A:\10873-008.txt

Output Set: N:\CRF3\06032002\I492764B.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the  $\langle 220 \rangle$  to  $\langle 223 \rangle$  fields of each sequence which presents at least one n or Xaa.

Seq#:12; Xaa Pos. 3 Seq#:20; Xaa Pos. 2 Seg#:22; Xaa Pos. 2 Seq#:23; Xaa Pos. 2 Seq#:24; Xaa Pos. 2 Seq#:25; Xaa Pos. 2 Seq#:27; Xaa Pos. 2 Seq#:28; Xaa Pos. 2 Seq#:29; Xaa Pos. 1 Seq#:30; Xaa Pos. 2 Seq#:32; Xaa Pos. 2 Seq#:34; Xaa Pos. 2 Seq#:35; Xaa Pos. 2 Seg#:36; Xaa Pos. 2 Seq#:37; Xaa Pos. 2 Seq#:38; Xaa Pos. 2

VARIABLE LOCATION SUMMARY PATENT APPLICATION: US/09/492,764B

DATE: 06/03/2002 TIME: 13:31:23

Input Set : A:\10873-008.txt

Output Set: N:\CRF3\06032002\I492764B.raw

## Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of  $\langle 220 \rangle$  to  $\langle 223 \rangle$  is MANDATORY if n's or Xaa's are present. in  $\langle 220 \rangle$  to  $\langle 223 \rangle$  section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:12; Xaa Pos. 3 Seg#:20; Xaa Pos. 2 Seq#:22; Xaa Pos. 2 Seq#:23; Xaa Pos. 2 Seq#:24; Xaa Pos. 2 Seq#:25; Xaa Pos. 2 Seq#:27; Xaa Pos. 2 Seq#:28; Xaa Pos. 2 Seq#:29; Xaa Pos. 1 Seq#:30; Xaa Pos. 2 Seq#:32; Xaa Pos. 2 Seq#:34; Xaa Pos. 2 Seq#:35; Xaa Pos. 2 Seq#:36; Xaa Pos. 2 Seq#:37; Xaa Pos. 2 Seq#:38; Xaa Pos. 2

VERIFICATION SUMMARY DATE: 06/03/2002 PATENT APPLICATION: US/09/492,764B TIME: 13:31:23

Input Set : A:\10873-008.txt

Output Set: N:\CRF3\06032002\I492764B.raw

L:226 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:12 L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0 L:354 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20 L:354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0 L:392 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22 L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0 L:415 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:23 L:415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0 L:438 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:24 L:438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0 L:461 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:25 L:461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0 L:499 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:27 L:499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0 L:522 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:28  $L\!:\!522$   $M\!:\!341$   $W\!:$  (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0 L:545 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:29 L:545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0 L:568 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:30 L:568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0 L:606 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:32 L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0 L:644 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:34 L:644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0 L:667 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:35 L:667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0 L:690 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:36 L:690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0 L:713 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:37 L:713 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0  $L:736\ M:258\ W:$  Mandatory Feature missing, <222> not found for SEQ ID#:38 L:736 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0